

“What have we learnt about collective animal behaviour using complexity science”

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I will talk about how collective behaviour at the turn of the millennium evolved from a number of theories about individuals interact to produce collective patterns, to encompass a mature field where mathematical models were used to guide experiments. This revealed a number of insights in to bird flocks, fish schools, ant colonies and other social species. I will then talk about the machine learning ‘revolution’, and how a similar approach can be taken to football.